



ELECTRONIC TUBE REFERENCE

QB41100

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Transmitting power tetrode designed for RF amplification, linear/SSB service, oscillation, modulation, broadcasting, or frequency multiplication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 14.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	5.1
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	35 W
MAXIMUM CATHODE CURRENT	350 mA
<i>Promoted where the locked schema directly matches published RF values; frequency/service-specific limits and operating conditions are retained as parameter rows.</i>	

Transmitting tetrode for AM and FM transmitter service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	4000 V	RFPowerTube
Maximum screen voltage	600 V	RFPowerTube
Application	Transmitting tetrode for AM and FM transmitter service.	SourceDescription
Service category	RF/AF power service as specified in source	RFPowerTube
Heater/filament voltage	5 V	RFPowerTube
Heater/filament current	14.1 A	RFPowerTube
Operating frequency	75 MHz	RFPowerAmplifier
Plate voltage	4000 V	RFPowerAmplifier
Power output	1100 W	RFPowerAmplifier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating method	Direct	RFPowerTube
Device class	Tetrode	RFPowerTube

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4000 μ S	RFPowerTube
Screen-to-control-grid amplification factor	5.1	RFPowerTube

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	4.9 pF	RFPowerTube
Control-grid capacitance	12.7 pF	RFPowerTube



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	—
Heater/filament current	14 A	—
Transconductance	4000 uS	—
Screen-grid amplification factor	5.1	—
Typical screen-grid voltage	500 V	—
Typical plate current	100 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	4000 V	—
Maximum screen-grid voltage	600 V	—
Maximum plate/anode dissipation	400 W	—
Maximum screen-grid dissipation	35 W	—
Operating plate voltage	4000 V	ClassC;Telegraphy;75MHz
RF output power	1100 W	ClassC;Telegraphy;75MHz
Operating plate voltage	3500 V	ClassC;Telegraphy;100MHz
RF output power	650 W	ClassC;Telegraphy;100MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	4.9 pF	—
Plate-grid capacitance	0.12 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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